

SEQUENCE LISTING

<110> Wisconsin Alumni Research Foundation

<120> Biological Control of Crown Gall Disease

<130> 960296.97273

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<150> 60/224,929

<151> 2000-08-11

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<170> PatentIn Ver. 2.1

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30

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40

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55

60

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Glu Tyr Ala Ser Ile Ser Trp Arg Arg Met Ile Pro Asn Val Ala Asp
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Asn Val Leu Ile Thr Ile Leu Thr Leu Asn Ile Ala Phe Leu Asn Phe
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Tyr Leu Ala Ser Gly Val Ile Leu Ala Leu Ala Ala Val Leu Gly Ser	
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Asn Leu Leu Phe Val Gly Leu Ser His Phe Ala Gly Thr Gln Asn Ser
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Ile Ile Ser Leu Leu Ile Gly Val Tyr Leu Ala Leu Phe His Asn Ala
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Val Phe Tyr Phe Pro Phe Phe Thr Leu Val Glu Leu Thr Ser Gly Leu
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Pro Phe Pro Arg Leu His Val Leu Ile Ala Val Tyr Ser Thr Tyr Ser
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Leu Leu Cys Phe Leu Ile Tyr Val Gly Leu Ile Gly Val Ser Asn Arg
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His	Gln	Val	Ser	Val	Gln	Pro	Asp	Leu	Thr	Leu	Thr	Gln	Arg	Leu	Ser
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Ser	Glu	Gly	Ser	Ile	Gln	Leu	Pro	Val	Pro	Phe	Leu	Lys	Thr	Ala	Asp
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Gln	Phe	Cys	Ile	Leu	Ser	Ser	Leu	Leu	Tyr	Ala	Gly	Phe	Gly	Val	Val
	115						120					125			
Glu	Thr	Arg	Lys	Phe	His	Gly	Asp	Thr	Ile	Phe	Leu	Lys	Asn	Val	Pro
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Ser	Val	Gly	Ala	Arg	His	Gly	Ile	Glu	Ala	Tyr	Val	Ser	Leu	Asp	Asp
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Gly	Arg	Tyr	Tyr	Tyr	Asp	Cys	Glu	Gln	His	Arg	Leu	Phe	Ser	Ala	Gly
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Glu	Val	Tyr	Met	Trp	Arg	Tyr	Gln	Thr	Ala	Ala	Cys	Leu	Ala	Asp	Val
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Ala Ser Phe Lys Pro Pro Glu Asn Ser Met Trp Arg Asp Trp Phe Gly			
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Arg Asn Leu Gly Glu Gly Gln His Val Ile Gly His Cys Asp Thr Gly			
115 120 125			
Pro Trp Asn Ile Val Cys Arg Ser Gly Leu Pro Val Gly Leu Ile Asp			
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Lys Gly Trp Val Asp Ala Leu Ile Leu His Phe Ala Ser Arg Asn Leu	
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Val Tyr Arg Tyr Asn Val Val Asn His Glu Leu Glu Ala Ile Arg Ala	
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 Ala Thr Ile Arg Arg Asp Gly Ser Thr Ala Trp Val His Glu Ser Arg
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 Leu Arg Gln Val Ser Tyr Cys Leu Ala Asn Ala Arg Val Ala Gly His
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 Gly Arg Gly Gly Thr Gly Val Ser Glu Leu Pro Ser Gln His Asp Gln
 570 575 580

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 Ile Ala Phe Val Glu Arg Gln Pro Val Arg Ile Asp Asp Val Thr His
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 Tyr Val Ile Gln Ala Val Ser Tyr Ser
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<211> 356

<212> PRT

<213> Rhizobium leguminosarum bv. trifolii

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 Pro Pro Gly Val Tyr Arg Tyr Asn Val Val Asn His Glu Leu Glu Ala
 245 250 255
 Ile Arg Ala Gly Asp Phe Lys Leu Asp Met Ala Lys Leu Ala Ile Gly
 260 265 270
 Gln Ser Arg Ala Ser Ser Gly Leu Phe Thr Phe Val Ile Cys Gly Asp
 275 280 285
 Leu Lys Ser Tyr Thr Ser Arg Tyr Arg His Glu Arg Ser Tyr Arg Asn
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 Leu Leu Ile Asn Thr Ser Gln Leu Ala Gln Phe Tyr Leu Thr Leu Ala
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 Thr Ile Asn Asp Phe Asn Thr Phe Leu Thr Pro Ala Ile His Asp Glu
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 Lys Met His Leu Phe Leu Glu Ala Glu Asp Asp Leu Pro Leu Tyr Leu
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 Val Thr Ala Gly
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<210> 9
 <211> 252
 <212> PRT
 <213> Rhizobium leguminosarum bv. trifolii

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 50 55 60
 Ala Arg Val Thr Arg Val Ala Arg Arg Leu Met Leu Glu Ala Thr Asn
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 Leu Lys Leu Ala Thr Ile Arg Arg Asp Gly Ser Thr Ala Trp Val His
 145 150 155 160
 Glu Ser Arg Leu Arg Gln Val Ser Tyr Cys Leu Ala Asn Ala Arg Val
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